

# **PEO Ammunition Overview**



***Briefing for:***  
***Mines, Demolitions and Non-Lethal Conference***

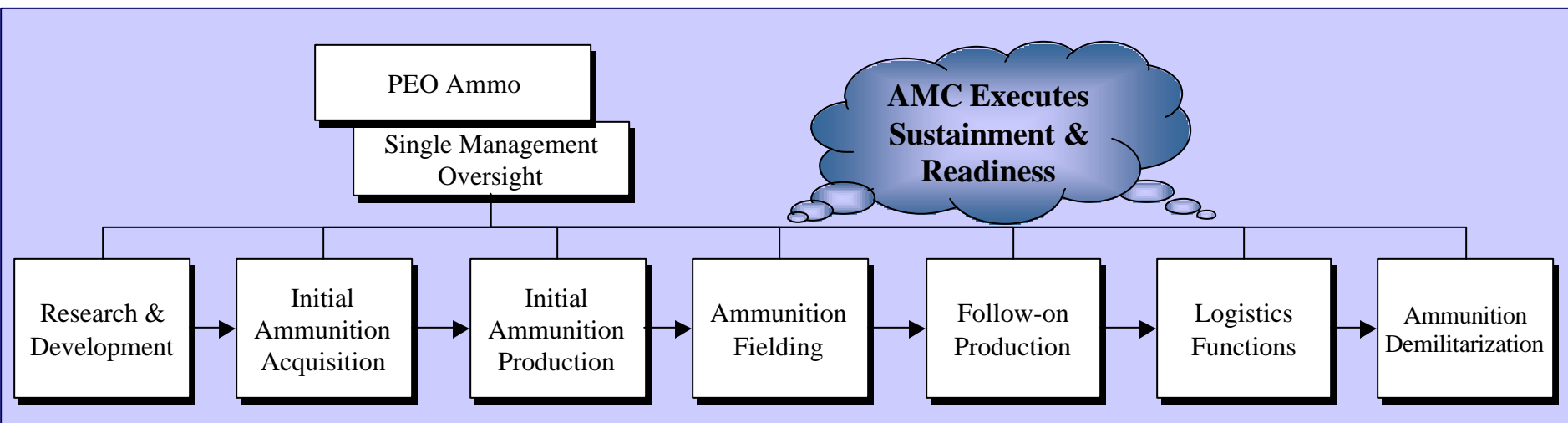
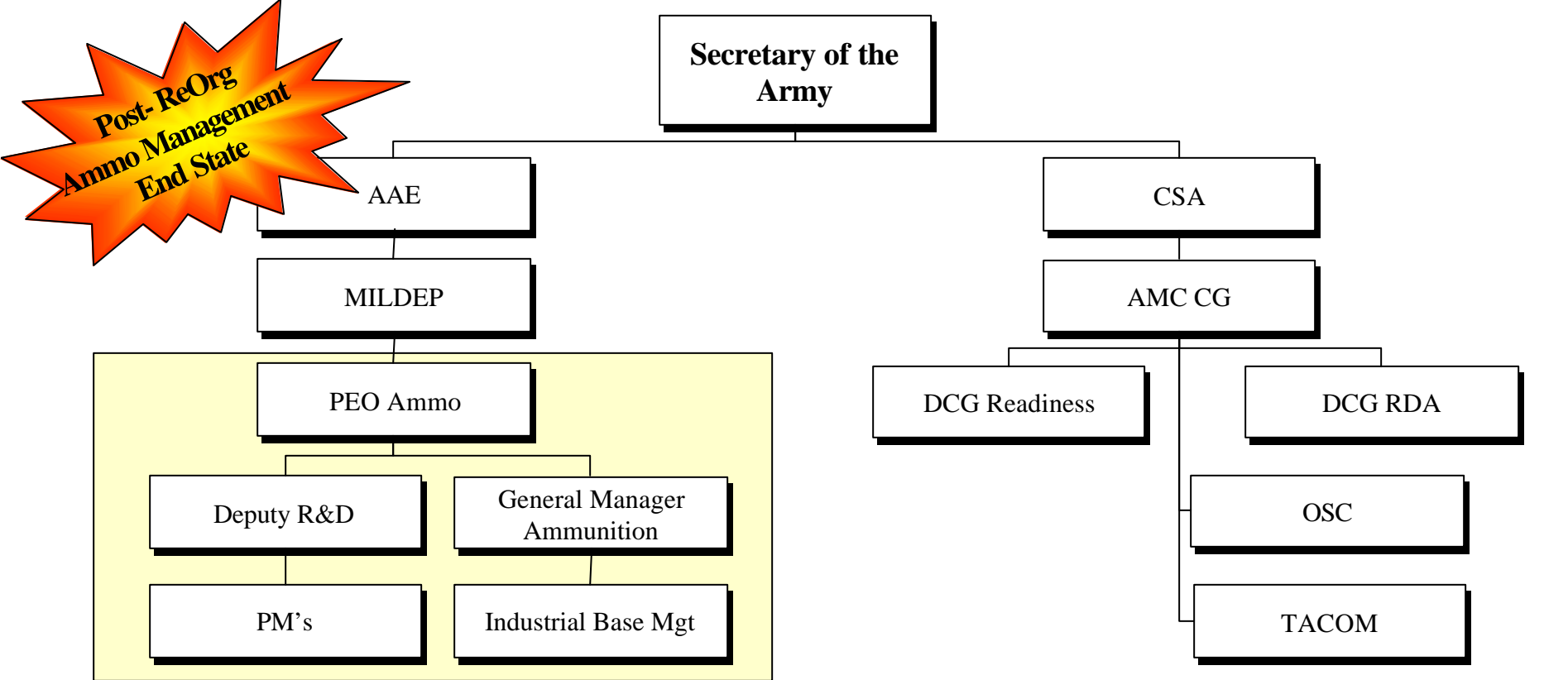
***Mr. Kevin Fahey***  
***Deputy Program Executive Officer Ammunition***  
***4 June 2002***



# Bottom Line Up Front

- PEO Ammunition is committed to providing superior ammunition to the soldier
- PEO Ammunition responsible for:
  - ✓ Life-Cycle acquisition management of conventional ammunition which includes integrating budgets, acquisition strategies, R&D and life-cycle management across all ammunition families.
  - ✓ Single ammunition voice in the budget process
  - ✓ Industrial Preparedness Planning, representing the munitions industrial base.
- PEO Ammunition is located at Picatinny Arsenal
  - ✓ Home of world-class Army R&D facility





**PEO, Ammo/PMs Manage Life Cycle...AMC Responsible for Execution**



# PEO Ammo Organization

ASAALT DASCs

☆☆  
**PEO Ammunition**

Director – Business  
Director – Programs  
Director – Industrial Base

🏆  
**Deputy for  
Research, Development  
& Production**

🏆  
**General Manager  
Ammunition**

Close Combat Systems

✈️  
Combat Ammo  
Systems Indirect Fire

✈️  
Maneuver Ammo  
System Direct Fire

✈️  
Joint Services

Organic Base  
Operations  
(Ammo Plants)

Demo, Mines,  
MICLIC & Grenades

✳️  
Conventional Ammo  
(Artillery & Mortars)

✳️  
Large Caliber

✳️  
DEMIL

✳️  
Excalibur

✳️  
Medium & Small  
Caliber



# Office of the Project Manager Mines, Countermine and Demolitions “Close Combat Systems”

## MISSION

Responsible for the Intensive Management of Programs From Development Through Initial Production, Fielding and Product Improvement

<u>FY02</u>	
RDT&E	\$111.2M
WTCV	-
OPA	\$19.0M
AMMO	\$31.2M
<b>TOTAL</b>	<b>\$161.4M</b>



## Customers:

MP's JNLWD  
Engineer  
Special Forces  
Artillery  
Infantry Aviation

## Product Lines

Wide Area Munitions (WAM)/Raptor  
FASCAM Mines  
Next Generation of Scatterable Mines  
Mine/Minefield Detect, Clear, Breach  
Non-Lethal Capabilities  
APL Alternatives  
Demolition Systems  
SOFSystems

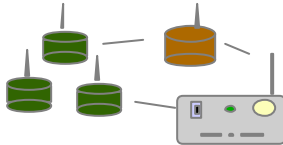
27 PROGRAMS  
2 ACAT II  
APL-A  
CONGRESSIONAL/PRESIDENTIAL  
INTEREST  
WAM OSD TEST OVERSIGHT  
48 CONTRACTS



# PROJECT MANAGER for Mines , Countermine & Demolitions



Wide Area Munition  
(Hornet)



Non-Self Destruct  
Alternative  
(APL-A Track 1)



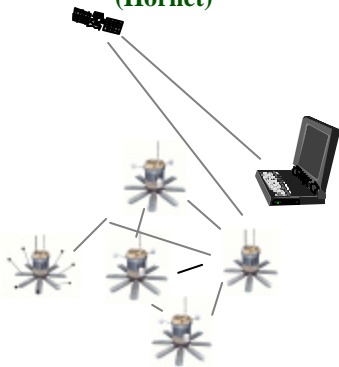
Ground Standoff  
Minefield Detection System



Modular Crowd  
Control Munition



Fighting  
Position Excavator



Intelligent Combat Outpost  
(Raptor)



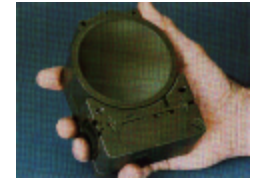
Rattler  
(APL-A Track 3)



Interim Vehicle Mounted  
Mine Detector



Non-Lethal Capability Set



Selectable Lightweight  
Attack Munition



VOLCANO

**Anti-Personnel  
Landmine  
Alternatives (APL-A)**



Hand-held Standoff  
Mine Detection System



Portable Vehicle  
Arresting Barrier



Sympathetic  
Detonator

Proc (12)	1.059b
RDT&E (15)	1.252b
<b>Total</b>	<b>2.311b</b>

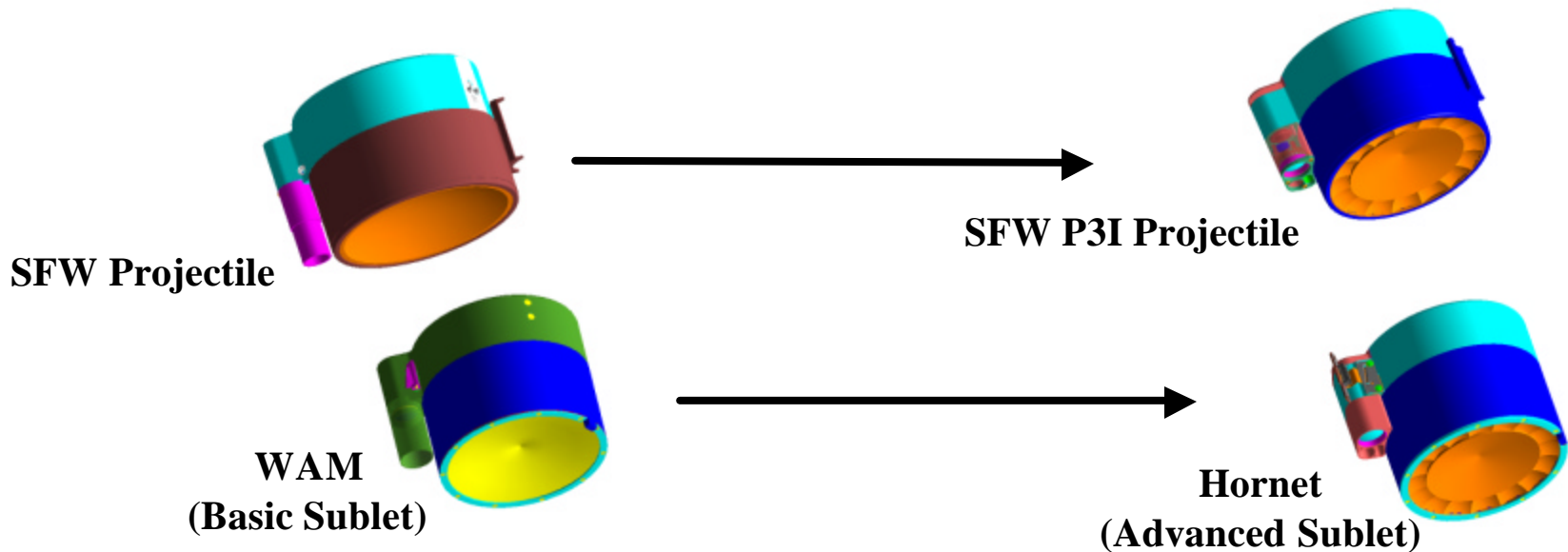
FY02 - FY09

**Non-Lethal  
Weapons**



# Horizontal Technology Insertion of Sensor Fused Weapon (SFW) into Wide Area Munition (WAM)

- The Air Force SFW P3I advanced sensor and warhead technology inserted into WAM



- ✓ Performance increases
- ✓ Commonality of components

- ✓ Proven producibility
- ✓ Significant reduction in cost



# Advanced Sublet Boosts Hornet Performance

- More frequent hits on target
  - ✓ Uses IR laser profilometer to detect target body
- Reduces sensor false alarms
  - ✓ Fuses both passive IR and active IR sensor data to develop fire solution
- Increases performance against suppressed targets and in high solar conditions
  - ✓ Increased passive sensor sensitivity
- Expands capability to soft targets
  - ✓ Employs copper combined effects warhead





# Ammunition

## FY02Fiscal and Congressional Information

### 1. Virginia

SEN Allen (D) SEN Warner (R) (SASC)  
 REP Boucher (D-9)

Contractor	City (Dist)	Major Comp	FY02 Jobs	FY02\$
Alliant	Radford (9) (Radford AAP)	Propellant f/ Hydra Rkt & 120mm Tk	1261	116.7M

State Totals 1261 116.7M

### 2. Tennessee

SEN Frist (R) SEN Thompson (R)  
 REP Jenkins (R-1) REP Tanner (D-8)

Contractor	City (Dist)	Major Comp	FY02 Jobs	FY02\$
American Ordnance (Milan AAP)	105mm Tk Milan (8)	754 40mm 120mm Mtr	80.3M	
Royal Ordnance NA (Holston AAP)	Kingsport (1)	Explosives	415	44.0M

State Totals 1169 124.3M

### 3. Missouri

SEN Carnahan ((D)) SEN Bond (R) (SAC)  
 REP McCarthy (D-5)

Contractor	City (Dist)	Major Comp	FY02 Jobs	FY02\$
Alliant. Tech	Independence (5) (Lake City AAP)	5.56mm- .50 Cal (FY01 data, FY02 not available)	1101	135.8M

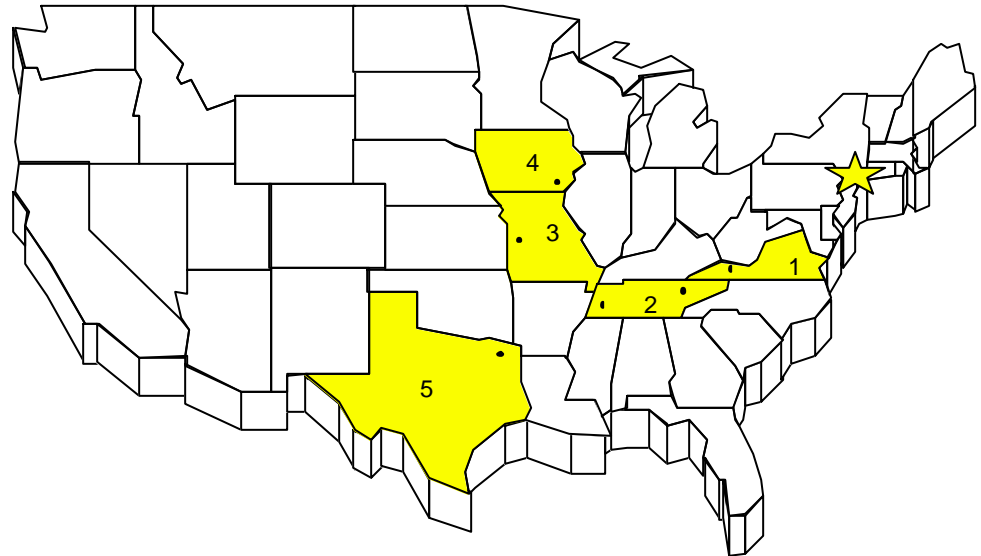
State Totals 1101 135.8M

### 4. Iowa

SEN Grassley (R) SEN Harkin (D)  
 REP Boswell (D-3)

Contractor	City (Dist)	Major Comp	FY02 Jobs	FY02\$
American Ordnance (Iowa AAP)	Burlington (3)	120mm Tnk 105mm 40 lb Shpd Chg	944	67.4M

State Totals 944 67.4M



### 5. Texas

SEN Gramm (R) SEN Hutchison (R) (SAC)  
 REP Sandlin (D-1) (HAC)

Contractor	City (Dist)	Major Comp	FY02 Jobs	FY02\$
Day & Zimmerman (Lone Star AAP)	Texarkana (1)	Mines/ Grenades	457	45M

State Totals 457 45M

### Total Program Summary

Top 5	
# States:	5
# Contractor Jobs:	4932
# Government Jobs:	113
FY02 \$ Budgeted:	\$489.2M
Includes direct government workload to active GOCOs only	

### Legend

- **FY02 Program Budget \$** rounded to nearest \$100,000
- **(D-1):** indicates Party and Congressional District
- **(6):** indicates Congressional District
- **Map dots** indicate Location of Top 3 Contractors in State
- **Star** indicates PEO/PM location

**Top 5 (or less) States** with Program Contractors

**Other States** with Program Contractors



# Industrial Base Challenges

- **Munitions Production Base Capacity**
  - ✓ Down 68% Last 10 Years
  - ✓ Currently Underutilized
- **Single Sources**
  - ✓ 71 of 302 Critical Components
- **Minimal Incentives for Contractor Capital Investment**
- **Manufacturing Capability**
  - ✓ Currently Focused on Legacy Systems
  - ✓ Marginal Future Munitions Capacity
- **Surge Capability Virtually Non-Existent**





# Industrial Preparedness Planning

- PEO Providing Centralized Management Of DOD's Organic & Industrial Munitions Production Base
  - ✓ Optimizing Coordination, Communication and Decision Making that affects Requirements & Production
- Establishing:
  - ✓ **Cohesive Strategies, Plans And Policies On The National Ammunition Technology & Industrial Base**
    - Ensure Ability To Support Operational, Surge And Sustainability Requirements
    - Increase Level Of Focus On Lower Tier Suppliers
    - Promote Disciplined Approach To Modernization
  - ✓ **Integrated Planning Process**
    - Legacy and Future Requirements
    - Linking Acquisition Strategies To Industrial Base Preparedness Planning
  - ✓ **Flexible, Agile Production Base**
    - Minimize Base Ownership, Consolidate To Realize Efficiencies
    - Emphasize Prototyping Capability Transfer & Technology Planning
    - Preserve Critical Core Capabilities



# Transformation From the Ammo Perspective

- Newer ammunition will be smarter, smaller, more lethal, more accurate, automation friendly and cost effective
  - ✓ Vehicles will be smaller, less storage
  - ✓ Logistics is key
  - ✓ Insensitivity is critical
- Must think of ammunition as a family of munitions with maximum commonality.
  - ✓ Anticipate limited quantity of “smart” ammo supported by larger quantity of “competent” ammo
- Need to figure out how to deal with special purpose munitions (smoke, illumination, etc)



# Summary

- PEO Ammo is committed to providing superior ammunition to the soldier
  - ✓ Increased Precision
  - ✓ Extended Range
  - ✓ Reduced Collateral damage
  - ✓ Increased Survivability
  - ✓ Reduced Logistics Footprint

